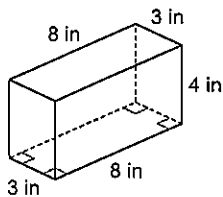


Include formulas & show all work!

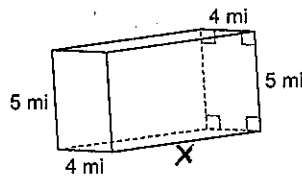
Due Date May 7, 2015 Period _____

Find the volume of each figure OR if given the volume, find the missing measure.

1)

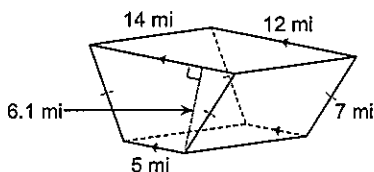


2)

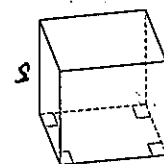


$$V = 200 \text{ mi}^3$$

3)



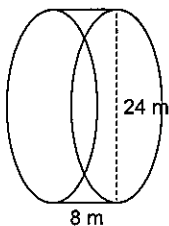
4)



$$V = 343 \text{ in}^3 \text{ (cube)}$$

Find the volume of each figure OR if given the volume, find the missing measure. Give BOTH the exact answer (in terms of π) AND an approximate answer, rounded to the nearest hundredth, if necessary.

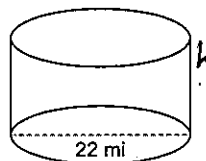
5)



Exact: _____

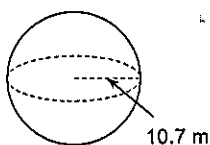
Approx: _____

6)



$$V = 1452\pi \text{ mi}^3$$

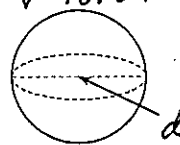
7)



Exact: _____

Approx: _____

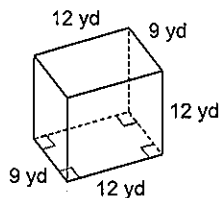
8)



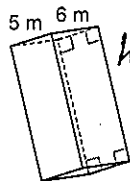
$$V = 10.67\pi \text{ in}^3$$

Find the surface area of each figure OR if given the surface area, find the missing measure.

9)

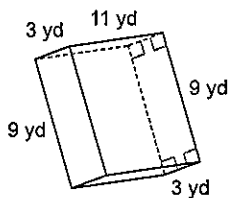


10)

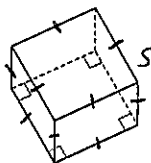


$$SA = 324 \text{ m}^2$$

11)



12)

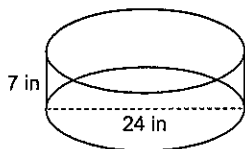


$$SA = 486 \text{ m}^2$$

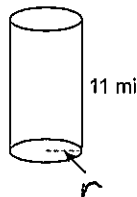
Find the surface area of each figure OR if given the surface area, find the missing measure.

Give BOTH the exact answer (in terms of π) AND an approximate answer, rounded to the nearest hundredth, if necessary.

13)



14)

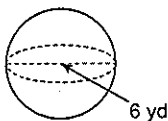


$$SA = 84\pi \text{ mi}^2$$

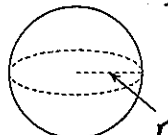
Exact: _____

Approx: _____

15)



16)



$$SA = 64\pi \text{ cm}^2$$

Exact: _____

Approx: _____